

Vehicle Safety Video System

- 2.4 GHZ Wireless Camera Control Box
- 2.4 GHZ Wireless Camera
- LCD Monitor



FEATURES

Wireless Camera Control Box

KEY FUNCTIONS

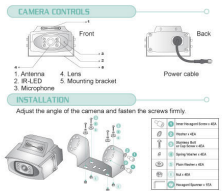
- This system is designed with ultrahigh frequency channel rated at 2.4GHz which is very close to microwave bands.
- The frequency bands range from 2400MHz to 2483MHz (ISM Band).
- Aside from the ISM 2.4G within the system, there is another ISM dual-direction control channel by using GSM433 channel to control over 2.4G channel for camera signaling and the frequency is automatically receivable to assure of more stable signaling.
- The ISM 2.4G is designed with analog, while ISM 433 is used for digital control.
- Within this system, each unit is designed with an ID code. Before operation, please setup the password previously so that users can avoid erroneous operation.



Wireless Camera

KEY FUNCTIONS

- The wireless camera is powered by voltage level from 10V-30V and this voltage range is quite different from that of general cameras only rated at 12V. Thus, it is available for automobile application.
- The camera is designed with internally hidden antenna with the least damage possibility under operation.
 - The camera is automatically turned on when the monitor is turned on.
 - The camera utilizes a CCD image sensor having a high quality picture.
 - The camera automatically adjusts the picture quality with changing in light.
 - Wide field of view: 120° (up to 180°)
 - 95 degree in the horizontal plane
 - 120 degree in the diagonal plane
 - Water resistant housing
 - Operates over a wide temperature range.

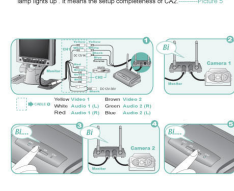


WIRELESS CAMERA SETTING

Please connect the camera control box to the dedicated monitor (picture 1)

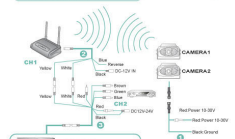
Camera 1 Setup:

- Insert the CA power cords into the receiver box and ID setup hole 1 whenever it gives off a short beeping sound, immediately after that, the unit is ready to enter setup status.
- Press "CH" key with beeping sound happening and the CA1 indicator stably lamp lights up. It means the setup completeness of CA1. (Picture 5)



CONNECT

WIRING DIAGRAM (1)



CABLE



CAMERA CONTROLS USING

CA1 Key



CA2 Key

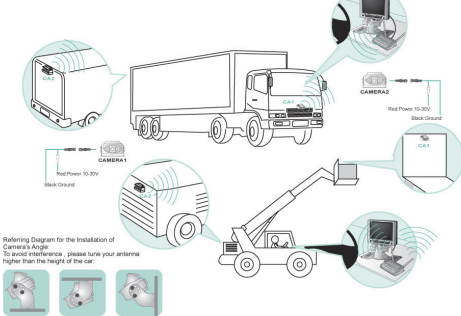


CH Key



Whenever the screen is blinking (see figure (a)), users can switch to the clear channel by pressing the CH key.

WIRING DIAGRAM (2)



SPECIFICATIONS

2.4 GHZ WIRELESS

Camera Control Box		CH 1: 2440MHz CH2: 2442MHz CH3: 2444MHz CH4: 2446MHz CH5: 2448MHz CH6: 2450MHz CH7: 2452MHz CH8: 2454MHz CH9: 2456MHz CH10: 2458MHz CH11: 2460MHz CH12: 2462MHz CH13: 2464MHz CH14: 2466MHz CH15: 2468MHz CH16: 2470MHz CH17: 2472MHz CH18: 2474MHz CH19: 2476MHz CH20: 2478MHz CH21: 2480MHz CH22: 2482MHz CH23: 2484MHz CH24: 2486MHz CH25: 2488MHz CH26: 2490MHz CH27: 2492MHz CH28: 2494MHz CH29: 2496MHz CH30: 2498MHz CH31: 2500MHz CH32: 2502MHz CH33: 2504MHz CH34: 2506MHz CH35: 2508MHz CH36: 2510MHz CH37: 2512MHz CH38: 2514MHz CH39: 2516MHz CH40: 2518MHz CH41: 2520MHz CH42: 2522MHz CH43: 2524MHz CH44: 2526MHz CH45: 2528MHz CH46: 2530MHz CH47: 2532MHz CH48: 2534MHz CH49: 2536MHz CH50: 2538MHz CH51: 2540MHz CH52: 2542MHz CH53: 2544MHz CH54: 2546MHz CH55: 2548MHz CH56: 2550MHz CH57: 2552MHz CH58: 2554MHz CH59: 2556MHz CH60: 2558MHz CH61: 2560MHz CH62: 2562MHz CH63: 2564MHz CH64: 2566MHz CH65: 2568MHz CH66: 2570MHz CH67: 2572MHz CH68: 2574MHz CH69: 2576MHz CH70: 2578MHz CH71: 2580MHz CH72: 2582MHz CH73: 2584MHz CH74: 2586MHz CH75: 2588MHz CH76: 2590MHz CH77: 2592MHz CH78: 2594MHz CH79: 2596MHz CH80: 2598MHz CH81: 2600MHz CH82: 2602MHz CH83: 2604MHz CH84: 2606MHz CH85: 2608MHz CH86: 2610MHz CH87: 2612MHz CH88: 2614MHz CH89: 2616MHz CH90: 2618MHz CH91: 2620MHz CH92: 2622MHz CH93: 2624MHz CH94: 2626MHz CH95: 2628MHz CH96: 2630MHz CH97: 2632MHz CH98: 2634MHz CH99: 2636MHz CH100: 2638MHz CH101: 2640MHz CH102: 2642MHz CH103: 2644MHz CH104: 2646MHz CH105: 2648MHz CH106: 2650MHz CH107: 2652MHz CH108: 2654MHz CH109: 2656MHz CH110: 2658MHz CH111: 2660MHz CH112: 2662MHz CH113: 2664MHz CH114: 2666MHz CH115: 2668MHz CH116: 2670MHz CH117: 2672MHz CH118: 2674MHz CH119: 2676MHz CH120: 2678MHz CH121: 2680MHz CH122: 2682MHz CH123: 2684MHz CH124: 2686MHz CH125: 2688MHz CH126: 2690MHz CH127: 2692MHz CH128: 2694MHz CH129: 2696MHz CH130: 2698MHz CH131: 2700MHz CH132: 2702MHz CH133: 2704MHz CH134: 2706MHz CH135: 2708MHz CH136: 2710MHz CH137: 2712MHz CH138: 2714MHz CH139: 2716MHz CH140: 2718MHz CH141: 2720MHz CH142: 2722MHz CH143: 2724MHz CH144: 2726MHz CH145: 2728MHz CH146: 2730MHz CH147: 2732MHz CH148: 2734MHz CH149: 2736MHz CH150: 2738MHz CH151: 2740MHz CH152: 2742MHz CH153: 2744MHz CH154: 2746MHz CH155: 2748MHz CH156: 2750MHz CH157: 2752MHz CH158: 2754MHz CH159: 2756MHz CH160: 2758MHz CH161: 2760MHz CH162: 2762MHz CH163: 2764MHz CH164: 2766MHz CH165: 2768MHz CH166: 2770MHz CH167: 2772MHz CH168: 2774MHz CH169: 2776MHz CH170: 2778MHz CH171: 2780MHz CH172: 2782MHz CH173: 2784MHz CH174: 2786MHz CH175: 2788MHz CH176: 2790MHz CH177: 2792MHz CH178: 2794MHz CH179: 2796MHz CH180: 2798MHz CH181: 2800MHz CH182: 2802MHz CH183: 2804MHz CH184: 2806MHz CH185: 2808MHz CH186: 2810MHz CH187: 2812MHz CH188: 2814MHz CH189: 2816MHz CH190: 2818MHz CH191: 2820MHz CH192: 2822MHz CH193: 2824MHz CH194: 2826MHz CH195: 2828MHz CH196: 2830MHz CH197: 2832MHz CH198: 2834MHz CH199: 2836MHz CH200: 2838MHz CH201: 2840MHz CH202: 2842MHz CH203: 2844MHz CH204: 2846MHz CH205: 2848MHz CH206: 2850MHz CH207: 2852MHz CH208: 2854MHz CH209: 2856MHz CH210: 2858MHz CH211: 2860MHz CH212: 2862MHz CH213: 2864MHz CH214: 2866MHz CH215: 2868MHz CH216: 2870MHz CH217: 2872MHz CH218: 2874MHz CH219: 2876MHz CH220: 2878MHz CH221: 2880MHz CH222: 2882MHz CH223: 2884MHz CH224: 2886MHz CH225: 2888MHz CH226: 2890MHz CH227: 2892MHz CH228: 2894MHz CH229: 2896MHz CH230: 2898MHz CH231: 2900MHz CH232: 2902MHz CH233: 2904MHz CH234: 2906MHz CH235: 2908MHz CH236: 2910MHz CH237: 2912MHz CH238: 2914MHz CH239: 2916MHz CH240: 2918MHz CH241: 2920MHz CH242: 2922MHz CH243: 2924MHz CH244: 2926MHz CH245: 2928MHz CH246: 2930MHz CH247: 2932MHz CH248: 2934MHz CH249: 2936MHz CH250: 2938MHz CH251: 2940MHz CH252: 2942MHz CH253: 2944MHz CH254: 2946MHz CH255: 2948MHz CH256: 2950MHz CH257: 2952MHz CH258: 2954MHz CH259: 2956MHz CH260: 2958MHz CH261: 2960MHz CH262: 2962MHz CH263: 2964MHz CH264: 2966MHz CH265: 2968MHz CH266: 2970MHz CH267: 2972MHz CH268: 2974MHz CH269: 2976MHz CH270: 2978MHz CH271: 2980MHz CH272: 2982MHz CH273: 2984MHz CH274: 2986MHz CH275: 2988MHz CH276: 2990MHz CH277: 2992MHz CH278: 2994MHz CH279: 2996MHz CH280: 2998MHz CH281: 3000MHz CH282: 3002MHz CH283: 3004MHz CH284: 3006MHz CH285: 3008MHz CH286: 3010MHz CH287: 3012MHz CH288: 3014MHz CH289: 3016MHz CH290: 3018MHz CH291: 3020MHz CH292: 3022MHz CH293: 3024MHz CH294: 3026MHz CH295: 3028MHz CH296: 3030MHz CH297: 3032MHz CH298: 3034MHz CH299: 3036MHz CH300: 3038MHz CH301: 3040MHz CH302: 3042MHz CH303: 3044MHz CH304: 3046MHz CH305: 3048MHz CH306: 3050MHz CH307: 3052MHz CH308: 3054MHz CH309: 3056MHz CH310: 3058MHz CH311: 3060MHz CH312: 3062MHz CH313: 3064MHz CH314: 3066MHz CH315: 3068MHz CH316: 3070MHz CH317: 3072MHz CH318: 3074MHz CH319: 3076MHz CH320: 3078MHz CH321: 3080MHz CH322: 3082MHz CH323: 3084MHz CH324: 3086MHz CH325: 3088MHz CH326: 3090MHz CH327: 3092MHz CH328: 3094MHz CH329: 3096MHz CH330: 3098MHz CH331: 3100MHz CH332: 3102MHz CH333: 3104MHz CH334: 3106MHz CH335: 3108MHz CH336: 3110MHz CH337: 3112MHz CH338: 3114MHz CH339: 3116MHz CH340: 3118MHz CH341: 3120MHz CH342: 3122MHz CH343: 3124MHz CH344: 3126MHz CH345: 3128MHz CH346: 3130MHz CH347: 3132MHz CH348: 3134MHz CH349: 3136MHz CH350: 3138MHz CH351: 3140MHz CH352: 3142MHz CH353: 3144MHz CH354: 3146MHz CH355: 3148MHz CH356: 3150MHz CH357: 3152MHz CH358: 3154MHz CH359: 3156MHz CH360: 3158MHz CH361: 3160MHz CH362: 3162MHz CH363: 3164MHz CH364: 3166MHz CH365: 3168MHz CH366: 3170MHz CH367: 3172MHz CH368: 3174MHz CH369: 3176MHz CH370: 3178MHz CH371: 3180MHz CH372: 3182MHz CH373: 3184MHz CH374: 3186MHz CH375: 3188MHz CH376: 3190MHz CH377: 3192MHz CH378: 3194MHz CH379: 3196MHz CH380: 3198MHz CH381: 3200MHz CH382: 3202MHz CH383: 3204MHz CH384: 3206MHz CH385: 3208MHz CH386: 3210MHz CH387: 3212MHz CH388: 3214MHz CH389: 3216MHz CH390: 3218MHz CH391: 3220MHz CH392: 3222MHz CH393: 3224MHz CH394: 3226MHz CH395: 3228MHz CH396: 3230MHz CH397: 3232MHz CH398: 3234MHz CH399: 3236MHz CH400: 3238MHz CH401: 3240MHz CH402: 3242MHz CH403: 3244MHz CH404: 3246MHz CH405: 3248MHz CH406: 3250MHz CH407: 3252MHz CH408: 3254MHz CH409: 3256MHz CH410: 3258MHz CH411: 3260MHz CH412: 3262MHz CH413: 3264MHz CH414: 3266MHz CH415: 3268MHz CH416: 3270MHz CH417: 3272MHz CH418: 3274MHz CH419: 3276MHz CH420: 3278MHz CH421: 3280MHz CH422: 3282MHz CH423: 3284MHz CH424: 3286MHz CH425: 3288MHz CH426: 3290MHz CH427: 3292MHz CH428: 3294MHz CH429: 3296MHz CH430: 3298MHz CH431: 3300MHz CH432: 3302MHz CH433: 3304MHz CH434: 3306MHz CH435: 3308MHz CH436: 3310MHz CH437: 3312MHz CH438: 3314MHz CH439: 3316MHz CH440: 3318MHz CH441: 3320MHz CH442: 3322MHz CH443: 3324MHz CH444: 3326MHz CH445: 3328MHz CH446: 3330MHz CH447: 3332MHz CH448: 3334MHz CH449: 3336MHz CH450: 3338MHz CH451: 3340MHz CH452: 3342MHz CH453: 3344MHz CH454: 3346MHz CH455: 3348MHz CH456: 3350MHz CH457: 3352MHz CH458: 3354MHz CH459: 3356MHz CH460: 3358MHz CH461: 3360MHz CH462: 3362MHz CH463: 3364MHz CH464: 3366MHz CH465: 3368MHz CH466: 3370MHz CH467: 3372MHz CH468: 3374MHz CH469: 3376MHz CH470: 3378MHz CH471: 3380MHz CH472: 3382MHz CH473: 3384MHz CH474: 3386MHz CH475: 3388MHz CH476: 3390MHz CH477: 3392MHz CH478: 3394MHz CH479: 3396MHz CH480: 3398MHz CH481: 3400MHz CH482: 3402MHz CH483: 3404MHz CH484: 3406MHz CH485: 3408MHz CH486: 3410MHz CH487: 3412MHz CH488: 3414MHz CH489: 3416MHz CH490: 3418MHz CH491: 3420MHz CH492: 3422MHz CH493: 3424MHz CH494: 3426MHz CH495: 3428MHz CH496: 3430MHz CH497: 3432MHz CH498: 3434MHz CH499: 3436MHz CH500: 3438MHz CH501: 3440MHz CH502: 3442MHz CH503: 3444MHz CH504: 3446MHz CH505: 3448MHz CH506: 3450MHz CH507: 3452MHz CH508: 3454MHz CH509: 3456MHz CH510: 3458MHz CH511: 3460MHz CH512: 3462MHz CH513: 3464MHz CH514: 3466MHz CH515: 3468MHz CH516: 3470MHz CH517: 3472MHz CH518: 3474MHz CH519: 3476MHz CH520: 3478MHz CH521: 3480MHz CH522: 3482MHz CH523: 3484MHz CH524: 3486MHz CH525: 3488MHz CH526: 3490MHz CH527: 3492MHz CH528: 3494MHz CH529: 3496MHz CH530: 3498MHz CH531: 3500MHz CH532: 3502MHz CH533: 3504MHz CH534: 3506MHz CH535: 3508MHz CH536: 3510MHz CH537: 3512MHz CH538: 3514MHz CH539: 3516MHz CH540: 3518MHz CH541: 3520MHz CH542: 3522MHz CH543: 3524MHz CH544: 3526MHz CH545: 3528MHz CH546: 3530MHz CH547: 3532MHz CH548: 3534MHz CH549: 3536MHz CH550: 3538MHz CH551: 3540MHz CH552: 3542MHz CH553: 3544MHz CH554: 3546MHz CH555: 3548MHz CH556: 3550MHz CH557: 3552MHz CH558: 3554MHz CH559: 3556MHz CH560: 3558MHz CH561: 3560MHz CH562: 3562MHz CH563: 3564MHz CH564: 3566MHz CH565: 3568MHz CH566: 3570MHz CH567: 3572MHz CH568: 3574MHz CH569: 3576MHz CH570: 3578MHz CH571: 3580MHz CH572: 3582MHz CH573: 3584MHz CH574: 3586MHz CH575: 3588MHz CH576: 3590MHz CH577: 3592MHz CH578: 3594MHz CH579: 3596MHz CH580: 3598MHz CH581: 3600MHz CH582: 3602MHz CH583: 3604MHz CH584: 3606MHz CH585: 3608MHz CH586: 3610MHz CH587: 3612MHz CH588: 3614MHz CH589: 3616MHz CH590: 3618MHz CH591: 3620MHz CH592: 3622MHz CH593: 3624MHz CH594: 3626MHz CH595: 3628MHz CH596: 3630MHz CH597: 3632MHz CH598: 3634MHz CH599: 3636MHz CH600: 3638MHz CH601: 3640MHz CH602: 3642MHz CH603: 3644MHz CH604: 3646MHz CH605: 3648MHz CH606: 3650MHz CH607: 3652MHz CH608: 3654MHz CH609: 3656MHz CH610: 3658MHz CH611: 3660MHz CH612: 3662MHz CH613: 3664MHz CH614: 3666MHz CH615: 3668MHz CH616: 3670MHz CH617: 3672MHz CH618: 3674MHz CH619: 3676MHz CH620: 3678MHz CH621: 3680MHz CH622: 3682MHz CH623: 3684MHz CH624: 3686MHz CH625: 3688MHz CH626: 3690MHz CH627: 3692MHz CH628: 3694MHz CH629: 3696MHz CH630: 3698MHz CH631: 3700MHz CH632: 3702MHz CH633: 3704MHz CH634: 3706MHz CH635: 3708MHz CH636: 3710MHz CH637: 3712MHz CH638: 3714MHz CH639: 3716MHz CH640: 3718MHz CH641: 3720MHz CH642: 3722MHz CH643: 3724MHz CH644: 3726MHz CH645: 3728MHz CH646: 3730MHz CH647: 3732MHz CH648: 3734MHz CH649: 3736MHz CH650: 3738MHz CH651: 3740MHz CH652: 3742MHz CH653: 3744MHz CH654: 3746MHz CH655: 3748MHz CH656: 3750MHz CH657: 3752MHz CH658: 3754MHz CH659: 3756MHz CH660: 3758MHz CH661: 3760MHz CH662: 3762MHz CH663: 3764MHz CH664: 3766MHz CH665: 3768MHz CH666: 3770MHz CH667: 3772MHz CH668: 3774MHz CH669: 3776MHz CH670: 3778MHz CH671: 3780MHz CH672: 3782MHz CH673: 3784MHz CH674: 3786MHz CH675: 3788MHz CH676: 3790MHz CH677: 3792MHz CH678: 3794MHz CH679: 3796MHz CH680: 3798MHz CH681: 3800MHz CH682: 3802MHz CH683: 3804MHz CH684: 3806MHz CH685: 3808MHz CH686: 3810MHz CH687: 3812MHz CH688: 3814MHz CH689: 3816MHz CH690: 3818MHz CH691: 3820MHz CH692: 3822MHz CH693: 3824MHz CH694: 3826MHz CH695: 3828MHz CH696: 3830MHz CH697: 3832MHz CH698: 3834MHz CH699: 3836MHz CH700: 3838MHz CH701: 3840MHz CH702: 3842MHz CH703: 3844MHz CH704: 3846MHz CH705: 3848MHz CH706: 3850MHz CH707: 3852MHz CH708: 3854MHz CH709: 3856MHz CH710: 3858MHz CH711: 3860MHz CH712: 3862MHz CH713: 3864MHz CH714: 3866MHz CH715: 3868MHz CH716: 3870MHz CH717: 3872MHz CH718: 3874MHz CH719: 3876MHz CH720: 3878MHz CH721: 3880MHz CH722: 3882MHz CH723: 3884MHz CH724: 3886MHz CH725: 3888MHz CH726: 3890MHz CH727: 3892MHz CH728: 3894MHz CH729: 3896MHz CH730: 3898MHz CH731: 3900MHz CH732: 3902MHz CH733: 3904MHz CH734: 3906MHz CH735: 3908MHz CH736: 3910MHz CH737: 3912MHz CH738: 3914MHz CH739: 3916MHz CH740: 3918MHz CH741: 3920MHz CH742: 3922MHz CH743: 3924MHz CH744: 3926MHz CH745: 3928MHz CH746: 3930MHz CH747: 3932MHz CH748: 3934MHz CH749: 3936MHz CH750: 3938MHz CH751: 3940MHz CH752: 3942MHz CH753: 3944MHz CH754: 3946MHz CH755: 3948MHz CH756: 3950MHz CH757: 3952MHz CH758: 3954MHz CH759: 3956MHz CH760: 3958MHz CH761: 3960MHz CH762: 3962MHz CH763: 3964MHz CH764: 3966MHz CH765: 3968MHz CH766: 3970MHz CH767: 3972MHz CH768: 3974MHz CH769: 3976MHz CH770: 3978MHz CH771: 3980MHz CH772: 3982MHz CH773: 3984MHz CH774: 3986MHz CH775: 3988MHz CH776: 3990MHz CH777: 3992MHz CH778: 3994MHz CH779: 3996MHz CH780: 3998MHz CH781: 4000MHz CH782: 4002MHz CH783: 4004MHz CH784: 4006MHz CH785: 4008MHz CH786: 4010MHz CH787: 4012MHz CH788: 4014MHz CH789: 4016MHz CH790: 4018MHz CH791: 4020MHz CH792: 4022MHz CH793: 4024MHz CH794: 4026MHz CH795: 4028MHz CH796: 4030MHz CH797: 4032MHz CH798: 4034MHz CH799: 4036MHz CH800: 4038MHz CH801: 4040MHz CH802: 4042MHz CH803: 4044MHz CH804: 4046MHz CH805: 4048MHz CH806: 4050MHz CH807: 4052MHz CH808: 4054MHz CH809: 4056MHz CH810: 4058MHz CH811: 4060MHz CH812: 4062MHz CH813: 4064MHz CH814: 4066MHz CH815: 4068MHz CH816: 4070MHz CH817: 4072MHz CH818: 4074MHz CH819: 4076MHz CH820: 4078MHz CH821: 4080MHz CH822: 4082MHz CH823: 4084MHz CH824: 4086MHz CH825: 4088MHz CH826: 4090MHz CH827: 4092MHz CH828: 4094MHz CH829: 4096MHz CH830: 4098MHz CH831: 4100MHz CH832: 4102MHz CH833: 4104MHz CH834: 4106MHz CH835: 4108MHz CH836: 4110MHz CH837: 4112MHz CH838: 4114MHz CH839: 4116MHz CH840: 4118MHz CH841: 4120MHz CH842: 4122MHz CH843: 4124MHz CH844: 4126MHz CH845: 4128MHz CH846: 4130MHz CH847: 4132MHz CH848: 4134MHz CH849: 4136MHz CH850: 4138MHz CH851: 4140MHz CH852: 4142MHz CH853: 4144MHz CH854: 4146MHz CH855: 4148MHz CH856: 4150MHz CH857: 4152MHz CH858: 4154MHz CH859: 4156MHz CH860: 4158MHz CH861: 4160MHz CH862: 4162MHz CH863: 4164MHz CH864: 4166MHz CH865: 4168MHz CH866: 4170MHz CH867: 4172MHz CH868: 4174MHz CH869: 4176MHz CH870: 4178MHz CH871: 4180MHz CH872: 4182MHz CH873: 4184MHz CH874: 4186MHz CH875: 4188MHz CH876: 4190MHz CH877: 4192MHz CH878: 4194MHz CH879: 4196MHz CH880: 4198MHz CH881: 4200MHz CH882: 4202MHz CH883: 4204MHz CH884: 4206MHz CH885: 4208MHz CH886: 4210MHz CH887: 4212MHz CH888: 4214MHz CH889: 4216MHz CH890: 4218MHz CH891: 4220MHz CH892: 4222MHz CH893: 4224MHz CH894: 4226MHz CH895: 4228MHz CH896: 4230MHz CH897: 4232MHz CH898: 4234MHz CH899: 4236MHz CH900: 4238MHz CH901: 4240MHz CH902: 4242MHz CH903: 4244MHz CH904: 4246MHz CH905: 4248MHz CH906: 4250MHz CH907: 4252MHz CH908: 4254MHz CH909: 4256MHz CH910: 4258MHz CH911: 4260MHz CH912: 4262MHz CH913: 4264MHz CH914: 4266MHz CH915: 4268MHz CH916: 4270MHz CH917: 4272MHz CH918: 4274MHz CH919: 4276MHz CH920: 4278MHz CH921: 4280MHz CH922: 4282MHz CH923: 4284MHz CH924: 4286MHz CH925: 4288MHz CH926: 4290MHz CH927: 4292MHz CH928: 4294MHz CH929: 4296MHz CH930: 4298MHz CH931: 4300MHz CH932: 4302MHz CH933: 4304MHz CH934: 4306MHz CH935: 4308MHz CH936: 4310MHz CH937: 4312MHz CH938: 4314MHz CH939: 4316MHz CH940: 4318MHz CH941: 4320MHz CH942: 4322MHz CH943: 4324MHz CH944: 4326MHz CH945: 4328MHz CH946: 4330MHz CH947: 4332MHz CH948: 4334MHz CH949: 4336MHz CH950: 4338MHz CH951: 4340MHz CH952: 4342MHz CH953: 4344MHz CH954: 4346MHz CH955: 4348MHz CH956: 4350MHz CH957: 4352MHz CH958: 4354MHz CH959: 4356MHz CH960: 4358MHz CH961: 4360MHz CH962: 4362MHz CH963: 4364MHz CH964: 4366MHz CH965: 4368MHz CH966: 4370MHz CH967: 4372MHz CH968: 4374MHz CH969: 4376MHz CH970: 4378MHz CH971: 4380MHz CH972: 4382MHz CH973: 4384MHz CH974: 4386MHz CH975: 4388MHz CH976: 4390MHz CH977: 4392MHz CH978: 4394MHz CH979: 4396MHz CH980: 4398MHz CH981: 4400MHz CH982: 4402MHz CH983: 4404MHz CH984: 4406MHz CH985: 4408MHz CH986: 4410MHz CH987: 4412MHz CH988: 4414MHz CH989: 4416MHz CH990: 4418MHz CH991: 4420MHz CH992: 4422MHz CH993: 4424MHz CH994: 4426MHz CH995: 4428MHz CH996: 4430MHz CH997: 4432MHz CH998: 4434MHz CH999: 4436MHz CH1000: 4438MHz	Power cable 10A
2.4GHz Channel Frequency			CH 1: 2440MHz CH2: 2442MHz CH3: 2444MHz CH4: 2446MHz CH5: 2448MHz CH6: 2450MHz CH7: 2452MHz CH8: 2454MHz CH9: 2456MHz CH10: 2458MHz CH11: 2460MHz CH12: 2462MHz CH13: 2464MHz CH14: 2466MHz CH15: 2468MHz CH16: 2470MHz CH17: 2472MHz CH18: 2474MHz CH19: 2476MHz CH20: 2478MHz CH21: 2480MHz CH22: 2482MHz CH23: 2484MHz CH24: 2486MHz CH25: 2488MHz CH26: 2490MHz CH27: 2492MHz CH28: 2494MHz CH29: 2496MHz CH30: 2498MHz CH31: 2500MHz CH32: 2502MHz CH33: 2504MHz CH34: 2506MHz CH35: 2508MHz CH36: 2510MHz CH37: 2512MHz CH38: 2514MHz CH39: 2516MHz CH40: 2518MHz CH41: 2520MHz CH42: 2522MHz CH43: 2524MHz CH44: 2526MHz CH45: 2528MHz CH46: 2530MHz CH47: 2532MHz CH48: 2534MHz CH49: 2536MHz CH50: 2538MHz CH51: 2540MHz CH52: 2542MHz CH53: 2544MHz CH54: 2546MHz CH55: 2548MHz CH56: 2550MHz CH57: 2552MHz CH58: 2554MHz CH59: 2556MHz CH60: 2558MHz CH61: 2560MHz CH62: 2562MHz CH63: 2564MHz CH64: 2566MHz CH65: 2568MHz CH66: 2570MHz CH67: 2572MHz CH68: 2574MHz CH69: 2576MHz CH70: 2578MHz CH71: 2580MHz CH72: 2582MHz CH73: 2584MHz CH74: 2586MHz CH75: 2588MHz CH76: 2590MHz CH77: 2592MHz CH78: 2594MHz CH79: 2596MHz CH80: 2598MHz CH81: 2600MHz CH82: 2602MHz CH83: 2604MHz CH84: 2606MHz CH85: 2608MHz CH86: 2610MHz CH87: 2612MHz CH88: 2614MHz CH89: 2616MHz CH90: 2618MHz CH91: 2620MHz CH92: 2622MHz CH93: 2624MHz CH94: 2626MHz CH95: 2628MHz CH96: 2630MHz CH97: 2632MHz CH98: 2634MHz CH99: 2636MHz CH100: 2638MHz CH101: 2640MHz CH102: 2642MHz CH103: 2644MHz CH104: 2646MHz CH105: 2648MHz CH106: 2650MHz CH107: 2652MHz CH108: 2654MHz CH109: 2656MHz CH110: 2658MHz CH111: 2660MHz CH112: 2662MHz CH113: 2664MHz CH114: 2666MHz CH115: 2668MHz CH116: 2670MHz CH117: 2672MHz CH118: 2674MHz CH119: 2676MHz CH120: 2678MHz CH121: 2680MHz CH122: 2682MHz CH123: 2684MHz CH124: 2686MHz CH125: 2688MHz CH126: 2690MHz CH127: 2692MHz CH128: 2694MHz CH129: 2696MHz CH130: 2698MHz CH131: 2700MHz CH132: 2702MHz CH133: 2704MHz CH134: 2706MHz CH135: 2708MHz CH136: 2710MHz CH137: 2712MHz CH138: 2714MHz CH139: 2716MHz CH140: 2718MHz CH141:

Vehicle Safety Video System

- **2.4 GHZ** Wireless Camera Control Box
- **2.4 GHZ** Wireless Camera
- LCD Monitor



**2.4 GHZ
Wireless Camera
Control Box**



**2.4 GHZ
Wireless Camera**

FEATURES

Wireless Camera Control Box

KEY FUNCTIONS

1. This system is designed with ultrahigh frequency channel rated at 2.4GHz ,which is very close to microwave bands.
2. The frequency bands range from 2400MHz to 2483MHz(ISM Band).
3. Aside from the ISM 2.4G within the system, there is another ISM dual-direction control channel by using ISM433 channel to control over 2.4G channel for camera signaling and the frequency is automatically swappable to assure of more stable signaling.
4. The ISM 2.4G is designed with analogy, while ISM 433 is used for digital control.
5. Within this system, each unit is designed with an ID code. Before operation, please setup the password previously so that users can avoid erroneous operation.

1. Camera 1 indicator and CA1 signal Indicator.
2. Channel option key and setup keys for CA1 ID.
3. Camera option key and setup keys for CA2 ID.
4. Camera 2 indicator and CA2 signal indicator.



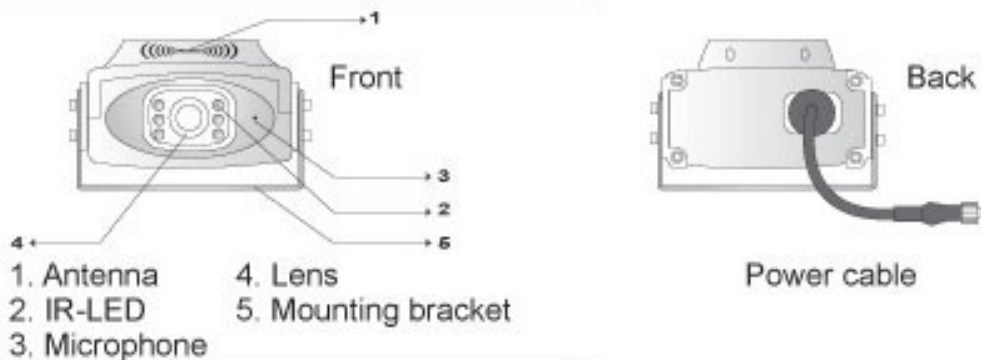
1. Antenna 1.
2. Mirror & Normal Setup.
3. Terminals to connect the dedicated monitor.
4. The setup connection hole for Camera ID.
5. Antenna 2.

Wireless Camera

KEY FUNCTIONS

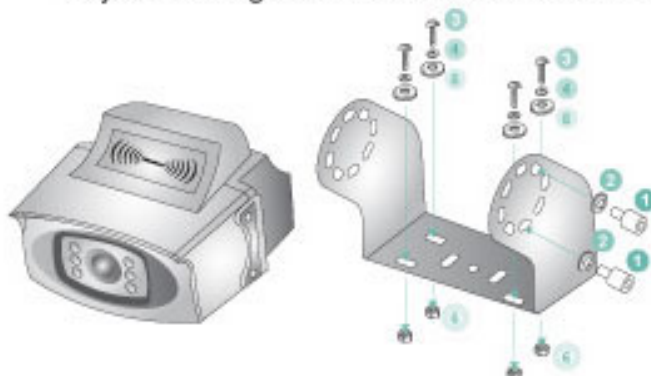
1. The wireless camera is powered by voltage level from 10V~30V and this voltage range is quite different from that of general cameras only rated at 12V. Thus , it is available for automobile application.
2. This camera is designed with internally hidden antenna with the least damage possibility under operation.
 - The camera is automatically turned on when the monitor is turned on.
 - The camera utilizes a CCD image sensor having a high quality picture.
 - The camera automatically adjusts the picture quality with changing in light.
 - Wide field of view : (option)
96 degree in the horizontal plane.
120 degree in the diagonal plane.
 - Water resistant housing.
 - Operates over a wide temperature range.

CAMERA CONTROLS



INSTALLATION

Adjust the angle of the camera and fasten the screws firmly.



	1 Inner Hexagonal Screw x 4EA
	2 Washer x 4EA
	3 Stainless Bolt or Cap Screw x 4EA
	4 Spring Washer x 4EA
	5 Plain Washer x 4EA
	6 Nut x 4EA
	7 Hexagonal Spanner x 1EA

WIRELESS CAMERA SETTING

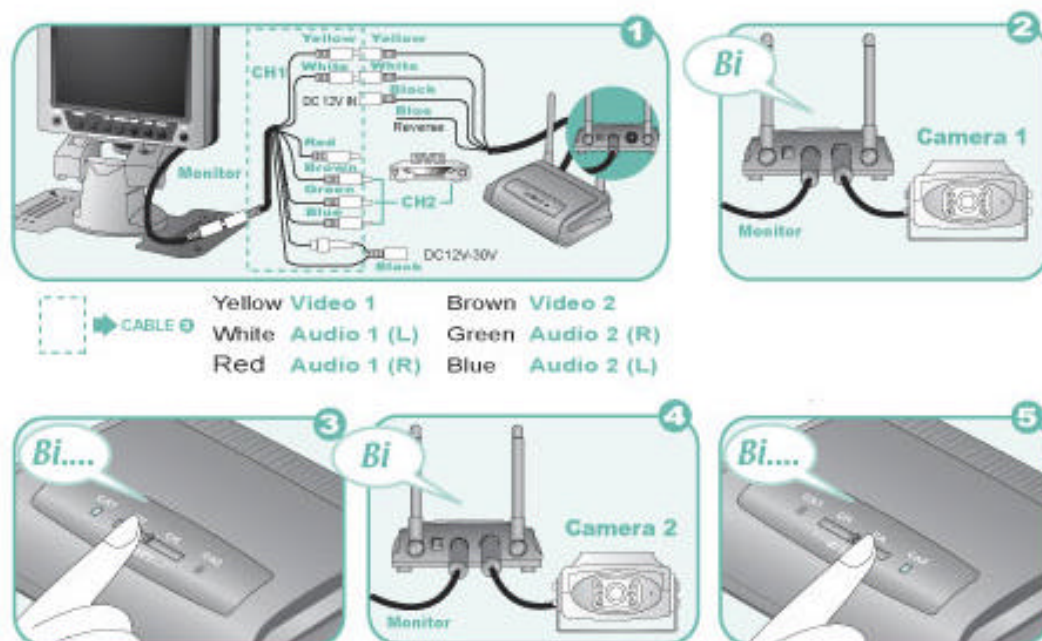
Please connect the camera control box to the dedicated monitor.-----picture 1

Camera 1 Setup :

1. Insert the CA power cords into the receiver box and ID setup hole : whenever it gives off a short beeping sound, immediately after that , the unit is exactly under setup status.-----Picture 2
2. Press "CH"key with beeping sound happening and the CA1 indicator stably lamp lights up . It means the setup completeness of CA1.-----Picture 3

Camera 2 Setup :

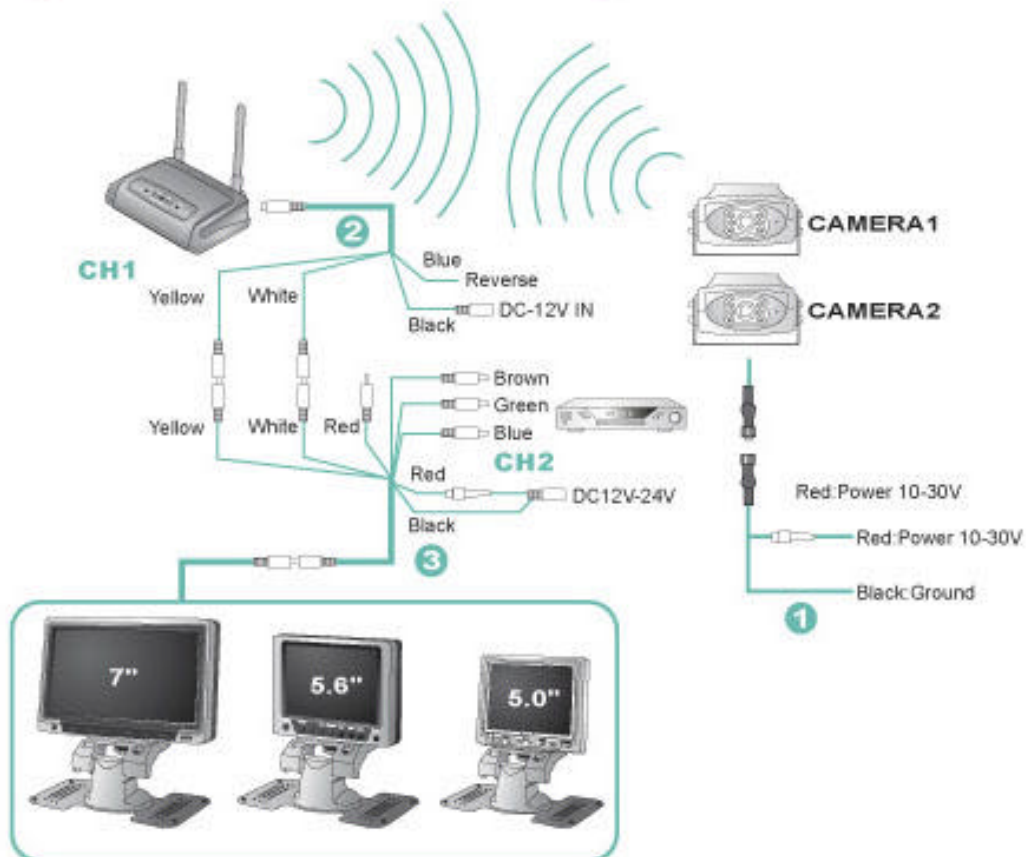
1. Insert the CA power cords into the receiver box and ID setup hole : whenever it gives off a long beeping sound (approximately 3 seconds of duration), the unit is therefore exactly under setup status.-----Picture 4
2. Press "CH"key with beeping sound happening and the CA2 indicator stably lamp lights up . It means the setup completeness of CA2.-----Picture 5



Car Safety Video System

CONNECT

WIRING DIAGRAM (I)



CABLE

For LCD Monitor



CAMERA CONTROLS USING

CA1 Key



CA2 Key

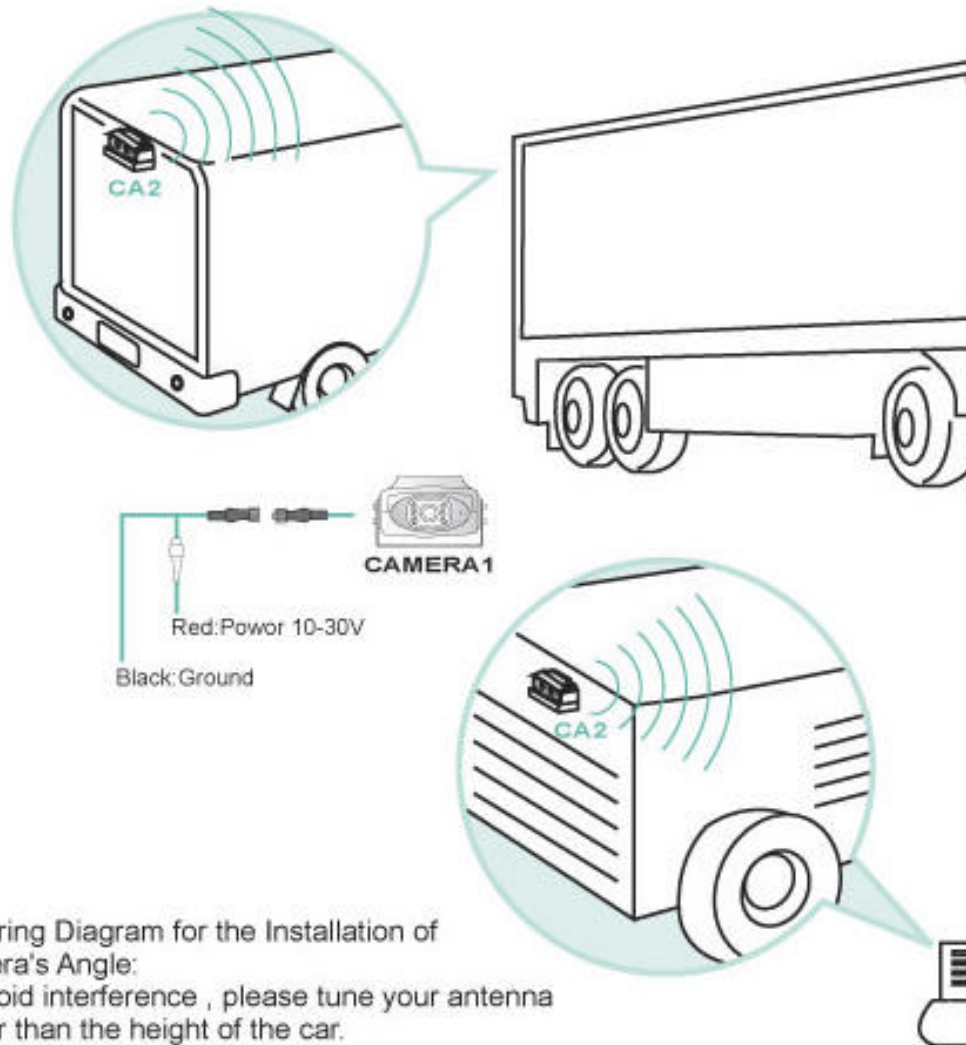


CH Key

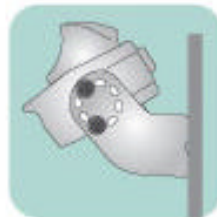
Whenever the screen is blinking like figure (a), users can switch to the clear channel by pressing the CH key.

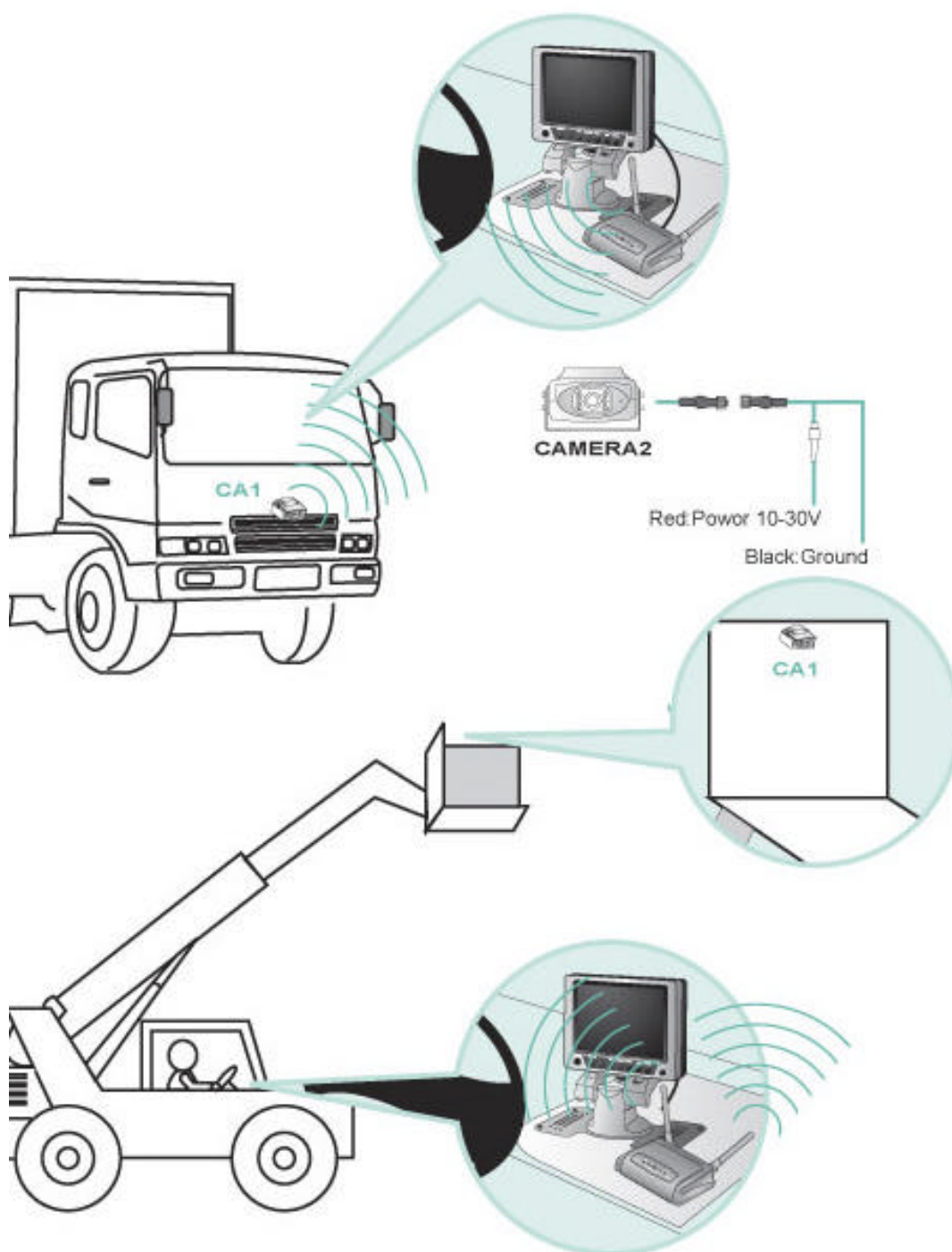
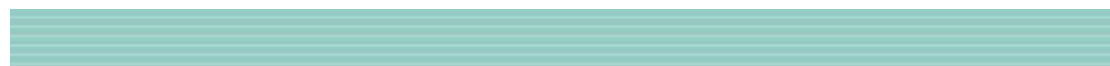


WIRING DIAGRAM (2)



Referring Diagram for the Installation of Camera's Angle:
To avoid interference , please tune your antenna higher than the height of the car.





SPECIFICATIONS

2.4 GHz Wireless

Camera Control Box --- W-2400R

2.4GHz Receiving Band	2400MHz~2483MHz (ISM band)	ACC'Y Supplied
2.4GHz Channel Frequency	CH1: 2414MHz CH2: 2432MHz CH3: 2450MHz CH4: 2468MHz	Power cable 1EA
2.4GHz Channel Setting	By Tact Switch	Touch Fasteners 1EA
2.4GHz RF Sensitivity	-80 dBm (min.)	
433 MHz Transmission Frequency	433.92 MHz or 434.33 MHz	
433 MHz RF Output Power	For FCC or R&TTE	
433 MHz Receiver Sensitivity	-95dBm (min.)	
Control Data Modulation	FSK	
Control Data Communication Type	Half-Duplex	
Camera Setting		
CA1/CA2 Camera Selection	Normal-DIP Switch Reverse Gear auto Change to CA1	
CA1/CA2 Camera Mirror Setting	By DIP Switch	
Power Supply		
Supply Voltage	DC12V	
Supply Current	≤350mA	

Monitor(5.6" LCD MONITOR)

Display Type	TFT LCD Panel for JEMITEK(CHI MEI) J560Q1-01	Input Terminals
Screen Size	5.6 inch	Mini Din Cable (Power, Ground, RCA)
Active Area	113.28(W) × 84.708(H) mm	Input Signal
Screen Color	Full-Colors	NTSC/PAL Auto Switching
Resolution	960 (H) × 234 (V) dots	Operation Temperatures
Brightness	250 cd/m ²	-10~+65°C
Display Driver	TFT Active Matrix System	Storage Temperatures
Display Frequency	NTSC: fh=15.73KHz, fv=60Hz PAL: fh=15.63KHz, fv=50Hz	-20~+85°C
Back light	Cold Cathode Filament Tube	Humidity
Operating Voltage	DC12V (11-30V)	10~90%RH
Power Consumption	12 V/ 0.5A	Overall Dimension
Key Functions	Video Control: Power, Channel Reverse (Mirror), Color, Bright Contrast Audio Control: VOL+, VOL-, Earphone	Weight
Video	1Vp-p/75ohm	400gm
Audio Input	350 mv Rms	ACC'Y Supplied
Audio Output	1w x 2 @ 6 ohms	Stand and tray 1EA
		Screw kit 1EA
		Power cable 3EA

Wireless Camera(Color Outdoor Mounting Camera)

—CA-2400TC

2.4GHZ Receiving Band	2400MHZ~2483MHZ (ISM Band)
2.4GHZ Channel Frequency	CH1: 2414MHZ CH2: 2432MHZ CH3: 2450MHZ CH4: 2468MHZ
2.4GHZ Channel Setting	By Control Box @Reote side
2.4GHZ RF Output Power	For FCC or R&TTE
Video Modulation Type	FM
Audio Modulation Type	FM-FM
433MHZ Transmission Frequency	433.92 MHZ or 434.33 MHZ
433MHZ RF Output Power	For FCC or R&TTE
433MHZ Receiver Sensitivity	-95dBm (min.)
Control Data Modulation	FSK
Control Data Communication Type	Half-Duplex
Power Supply	
Supply Voltage	DC12~24V
Supply Current	≤350mA

Color Camera

Image Sensor	1/3"COLOR CCD	ACC'Y Supplied
Picture Elements	NTSC: 510(H) x 492(V) , PAL: 500(H) x 582(V)	Camera Bracket 1EA
Scanning System	525 TV Lines 2:1Interlace , 625 TV Lines 2:1Interlace	Screw kit 1EA
Min. Illumination	1.0Lux / F1.2	Power Cable 1EA
Electronic shutter	1/60(1/50)~1/100,000	
Sync. System	Internal	
Scanning Frequency	NTSC: 15,750Hz , PAL: 15,625 Hz	
Horizontal Resolution	330TV Lines	
S/N Ratio	45dB or more (AGC Off)	
Video Output Signal	VBS 1.0Vp-p/75Ω	
Shock Resistance	10G	
Lens	Angular Diagonal 120° F=3.0mm ±5%	
Power Supply	DC12V±1V	
Power Consumption	200mA	
Audio Output	2V / 600Ω	
Operating Temp	-20°C to 55°C	
Weight	280g	
Dimension	105 x 65 x 65 (W x H x D) mm	

Car Safety Video System
Made in Taiwan